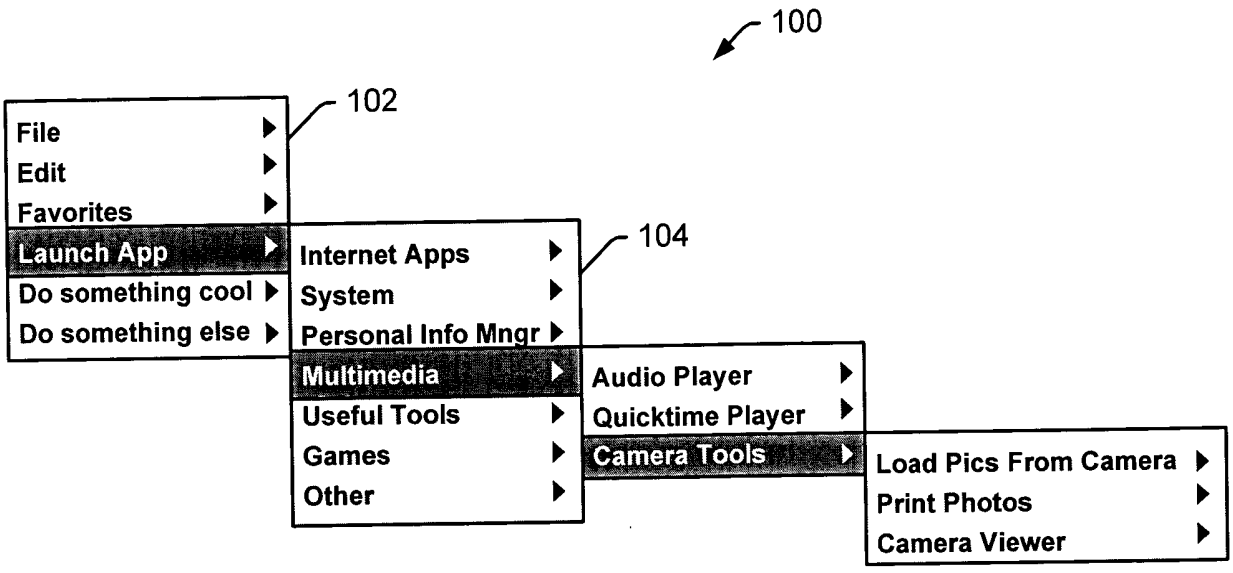
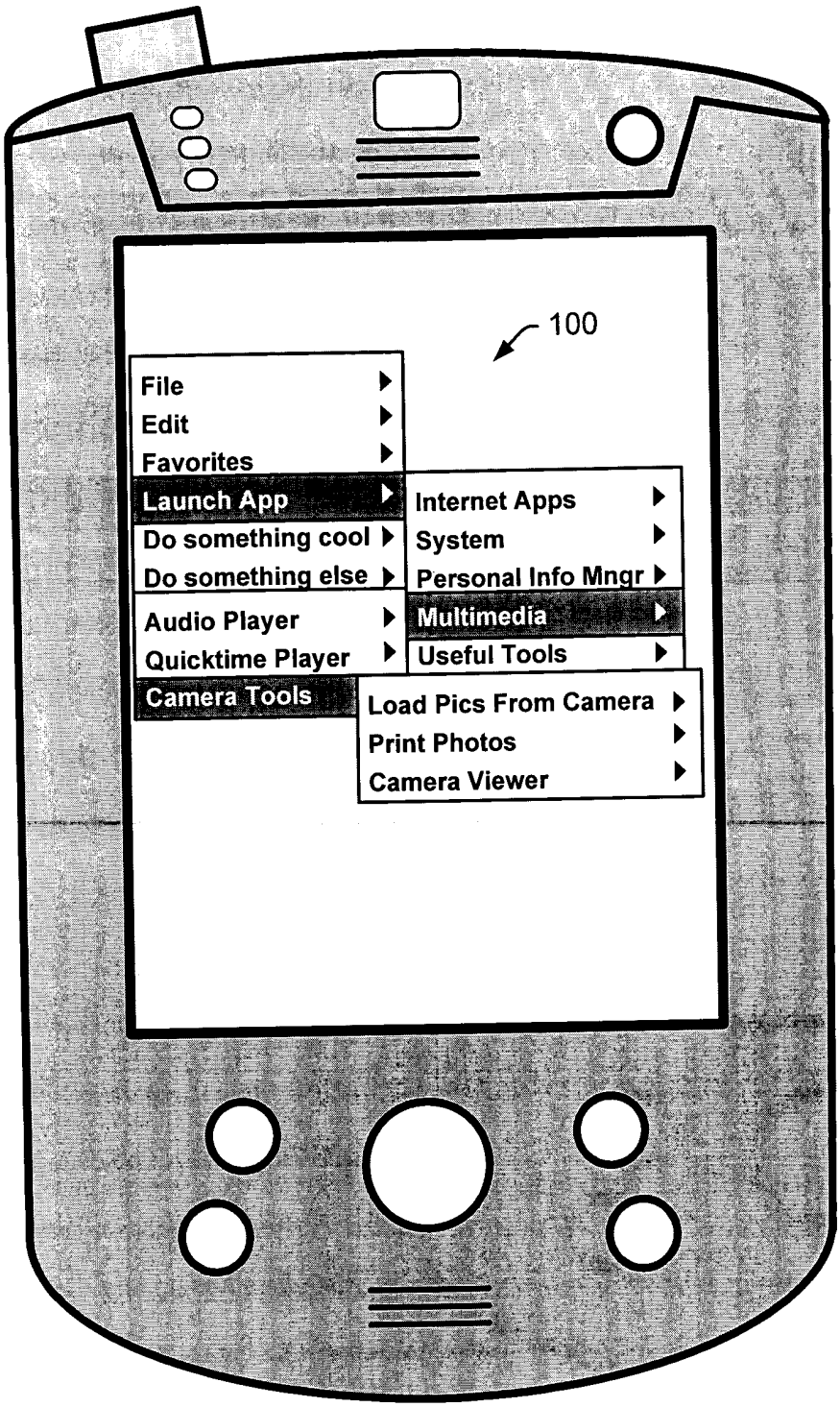


Prior Art

Fig. 1



Prior Art

Fig. 2

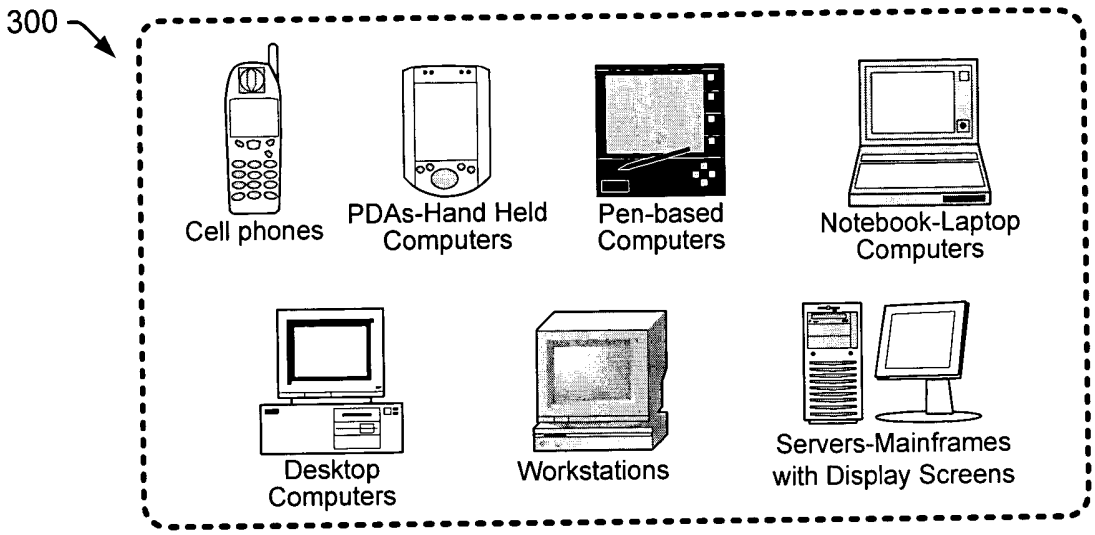

300
Cell phones
PDAs-Hand Held Computers
Pen-based Computers
Notebook-Laptop Computers
Desktop Computers
Workstations
Servers-Mainframes with Display Screens

Fig. 3

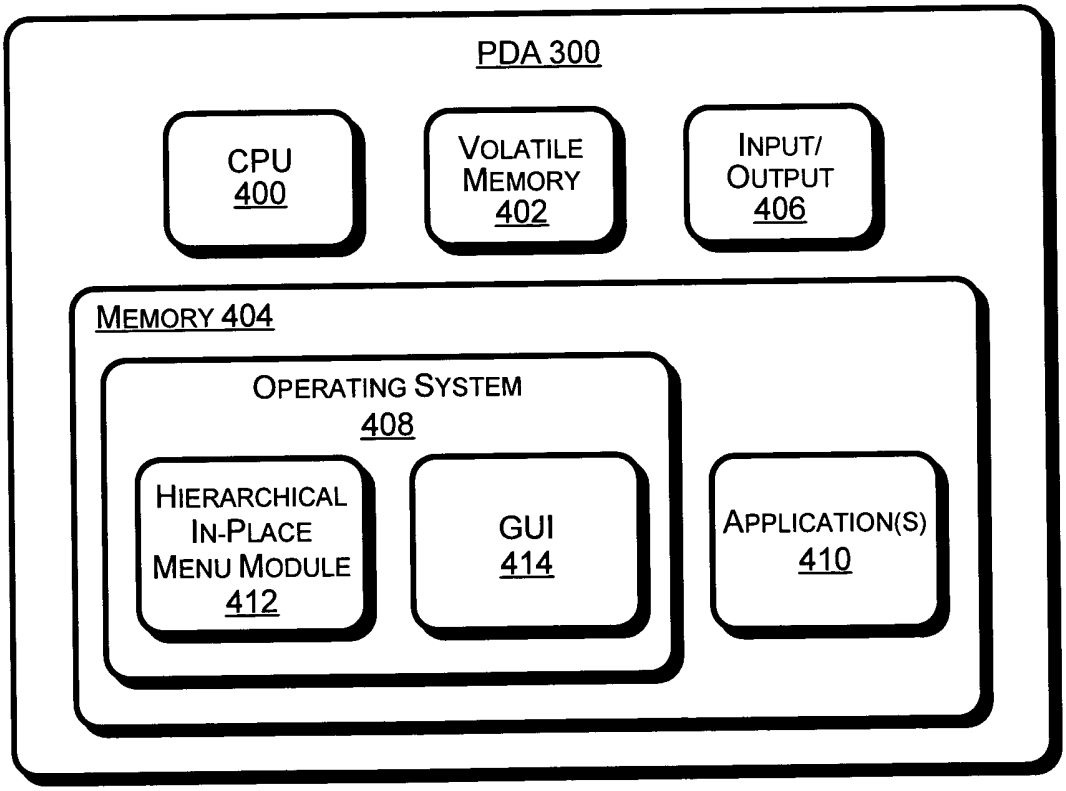

PDA 300
CPU 400
VOLATILE MEMORY 402
INPUT/ OUTPUT 406
MEMORY 404
OPERATING SYSTEM 408
HIERARCHICAL IN-PLACE MENU MODULE 412
GUI 414
APPLICATION(S) 410

Fig. 4

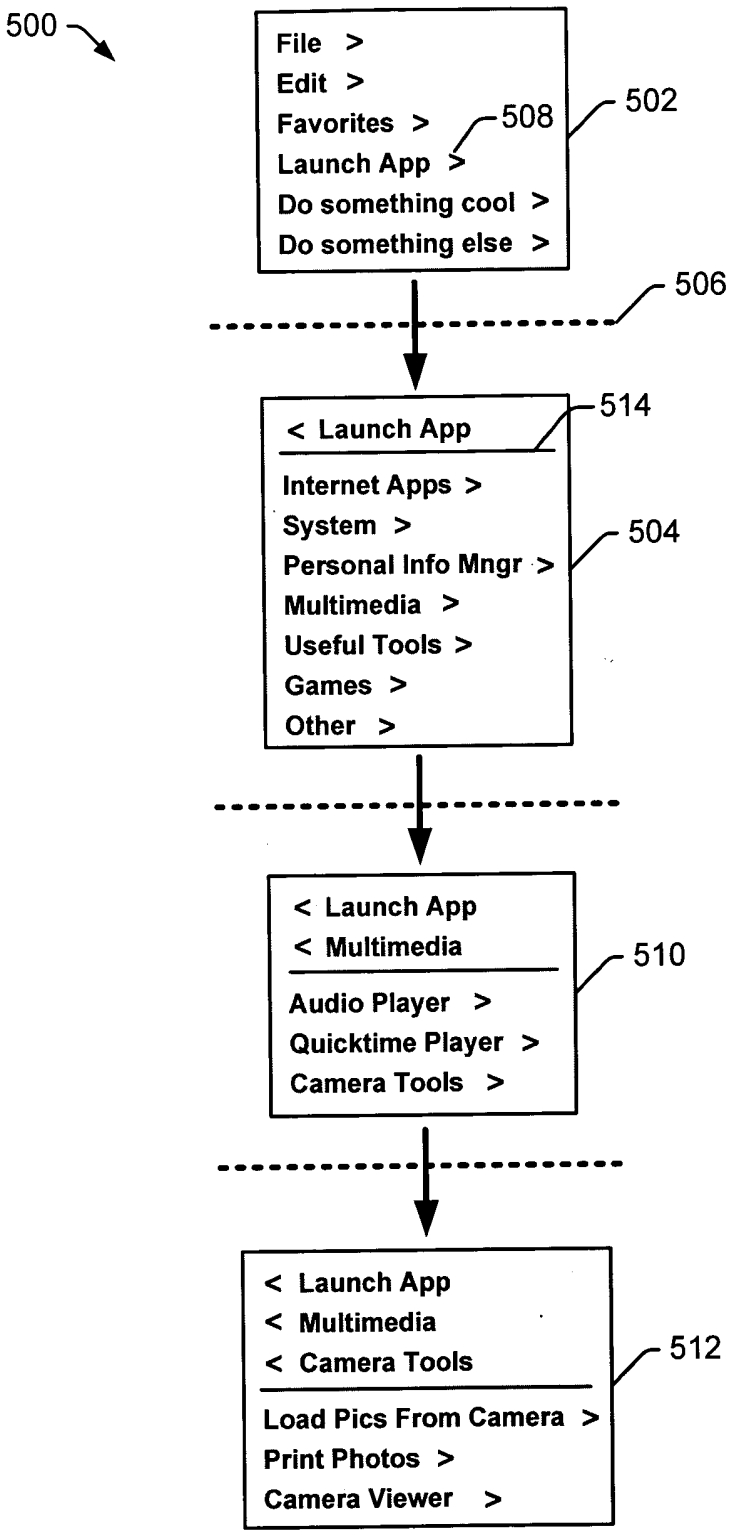
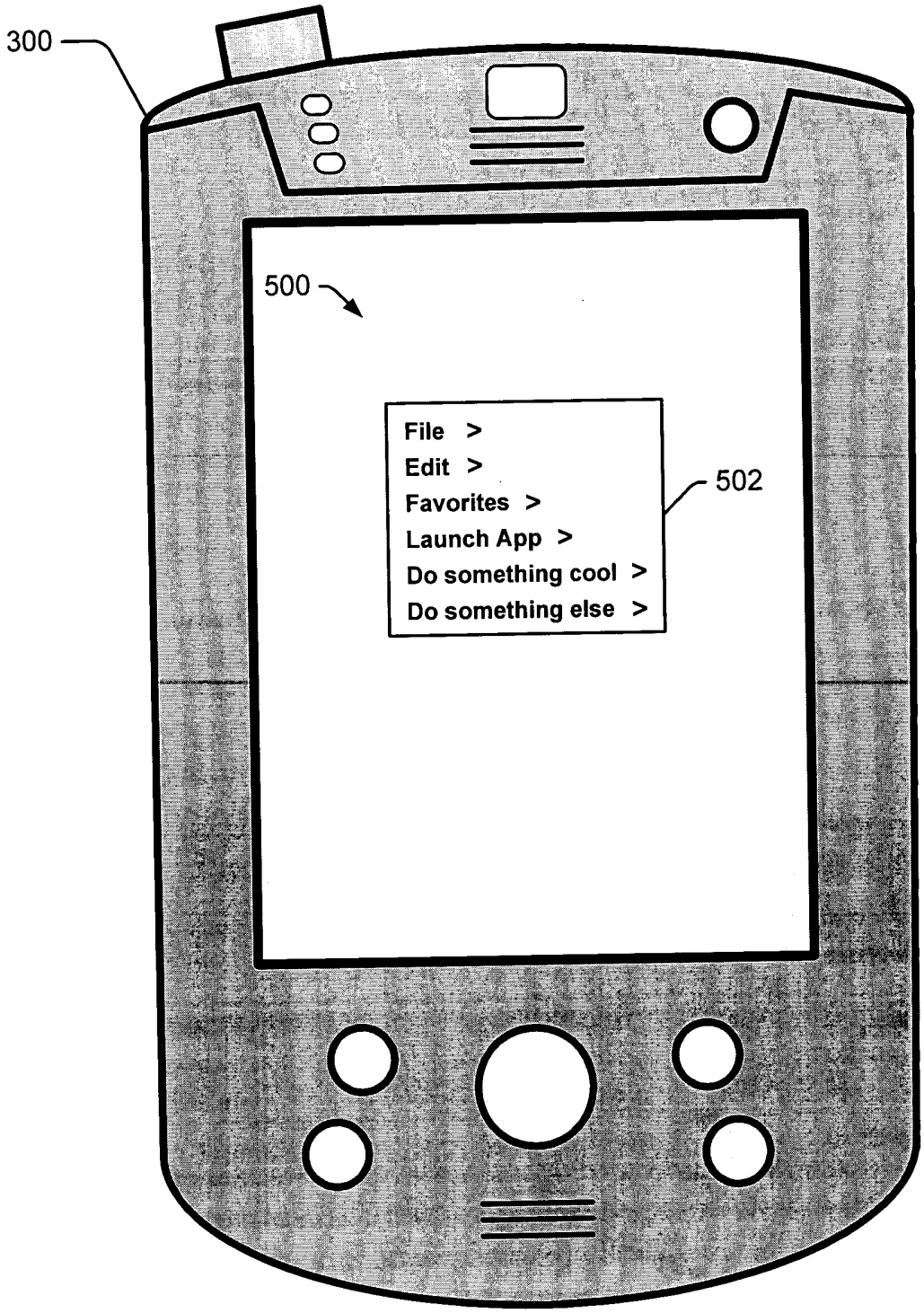

500
File >
Edit >
Favorites >
Launch App >
Do something cool >
Do something else >
508
502
506
< Launch App
Internet Apps >
System >
Personal Info Mngr >
Multimedia >
Useful Tools >
Games >
Other >
514
504
< Launch App
< Multimedia
Audio Player >
Quicktime Player >
Camera Tools >
510
< Launch App
< Multimedia
< Camera Tools
Load Pics From Camera >
Print Photos >
Camera Viewer >
512

Fig. 5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500
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Edit >
Favorites >
Launch App >
Do something cool >
Do something else >
502

Fig. 6

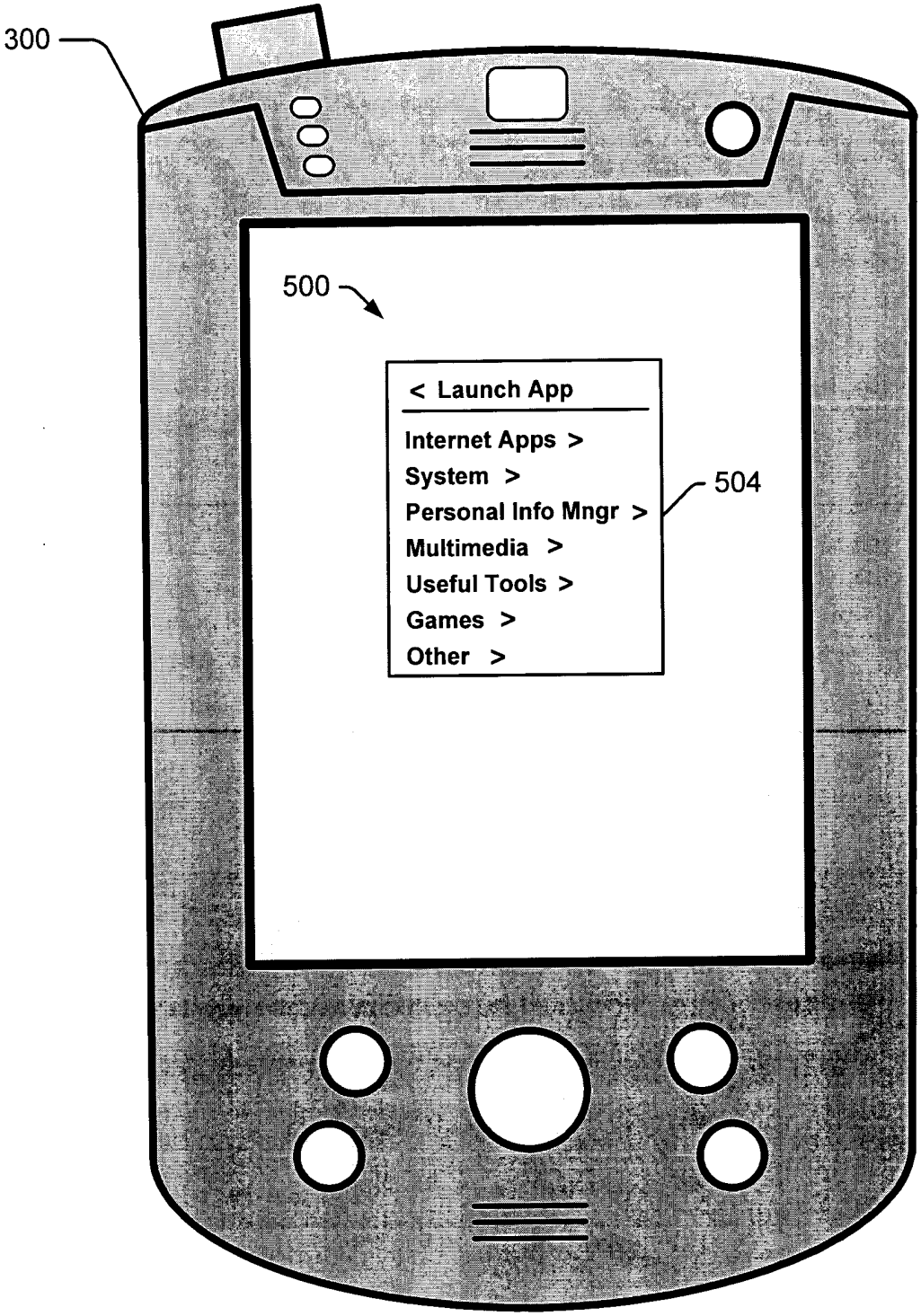
300
500
< Launch App
Internet Apps >
System >
Personal Info Mngr >
Multimedia >
Useful Tools >
Games >
Other >
504

Fig. 7

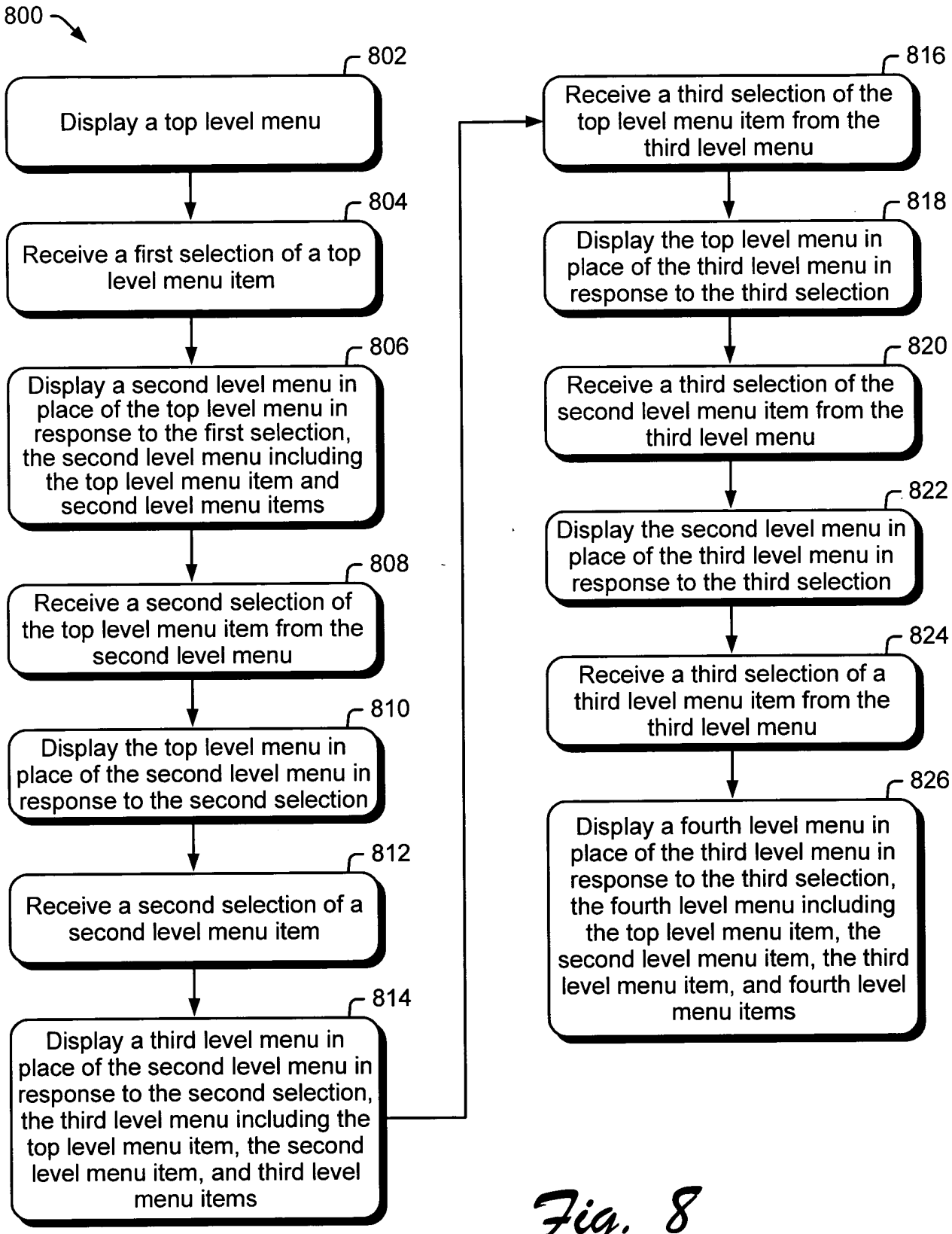
800
802
Display a top level menu
804
Receive a first selection of a top level menu item
806
Display a second level menu in place of the top level menu in response to the first selection, the second level menu including the top level menu item and second level menu items
808
Receive a second selection of the top level menu item from the second level menu
810
Display the top level menu in place of the second level menu in response to the second selection
812
Receive a second selection of a second level menu item
814
Display a third level menu in place of the second level menu in response to the second selection, the third level menu including the top level menu item, the second level menu item, and third level menu items
816
Receive a third selection of the top level menu item from the third level menu
818
Display the top level menu in place of the third level menu in response to the third selection
820
Receive a third selection of the second level menu item from the third level menu
822
Display the second level menu in place of the third level menu in response to the third selection
824
Receive a third selection of a third level menu item from the third level menu
826
Display a fourth level menu in place of the third level menu in response to the third selection, the fourth level menu including the top level menu item, the second level menu item, the third level menu item, and fourth level menu items

Fig. 8

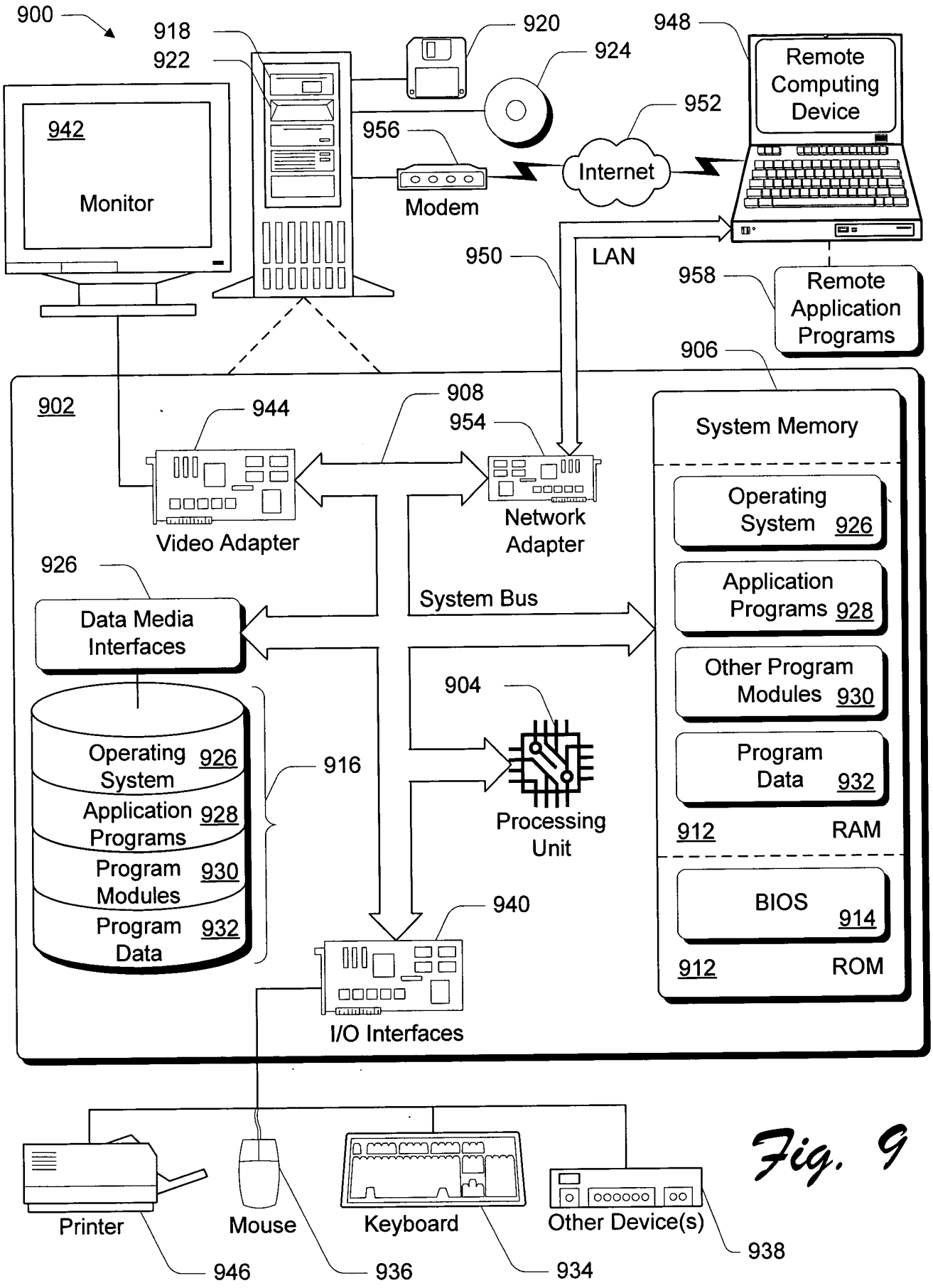
900
918
922
920
924
948
Remote Computing Device
952
942
Monitor
956
Modem
Internet
950
LAN
958
Remote Application Programs
906
902
944
908
954
System Memory
Video Adapter
Network Adapter
Operating System 926
Application Programs 928
Other Program Modules 930
Program Data 932
926
Data Media Interfaces
System Bus
904
Processing Unit
916
Operating System 926
Application Programs 928
Program Modules 930
Program Data 932
912
RAM
BIOS 914
912
ROM
940
I/O Interfaces
Printer
Mouse
Keyboard
Other Device(s)
946
936
934
938

Fig. 9